

What is claimed is:

1. A brushless motor formed with full-pitch windings in three phases, said motor comprising a rotor and a stator, the stator comprising a stator core having a yoke, teeth, and slots each formed between a pair of adjacent teeth, the teeth being three times in number of poles of the rotor, wherein

coils of each phases are inserted in the slots in a one coil per one slot manner, the coils having coil ends shaped in an axial direction of the stator.

2. The brushless motor according to claim 1, wherein the coil ends of each phases are arranged at an end surface of the stator core in such a manner that: the first coil is arranged outside the second and third coils, in a place where the second and third coils are inserted in a pair of slots adjacent to each other; the second coil is arranged from inside of the first coil to outside of the third coil, in a place where the first and third coils are inserted in another pair of slots adjacent to each other; and the third coil is arranged inside the first and second coils, in a place where the first and second coils are inserted in still another pair of slots adjacent to each other.

3. The brushless motor according to claim 1 or 2, wherein the coils are formed by full-pitch winding.

4. The brushless motor according to claim 1 or 2, wherein the rotor has six poles and the stator has eighteen slots.

5. The brushless motor according claim 3, wherein the rotor has six poles and the stator has eighteen slots.

6. The brushless motor according to claim 1 or 2, wherein the motor is driven by sinusoidal wave driving.

7. The brushless motor according to claim 3, wherein the motor is driven by sinusoidal wave driving.

8. The brushless motor according to claim 4, wherein the motor is driven by sinusoidal wave driving.

9. A machine including the brushless motor according to claim 1 or 2.

10. A machine including the brushless motor according to claim 3.

11. A machine including the brushless motor according to claim 4.

12. A machine including the brushless motor according to claim 5.

13. An hermetic compressor including the brushless motor according to claim 1 or 2.

14. An hermetic compressor including the brushless motor according to claim 3.

15. An hermetic compressor including the brushless motor according to claim 4.

16. An hermetic compressor including the brushless motor according to claim 6.

17. The hermetic compressor according to claim 13, wherein a refrigerant used in the hermetic compressor is R134a.

18. The hermetic compressor according to claim 13, wherein the coils of the brushless motor are formed by full-pitch winding and a refrigerant used in the hermetic compressor is R134a.

19. The hermetic compressor according to claim 13, wherein the coils of the brushless motor are formed by full-pitch winding.

20. A machine including the hermetic compressor according to claim 13.

21. A machine including the hermetic compressor according to claim 17.

22. The machine according to claim 21, wherein the coils of the brushless motor are formed by full-pitch winding